

**Patent claims**

1. An apparatus for measurement, monitoring and/or regulation of a temperature in particular the temperature of the mold wall of an injection mold, by means of at least one measurement element (4, 5) which pulls through a sensor body (1) in a corresponding hole (2, 3) at least as far as its outer walls (6),

characterized

in that the measurement element (4, 5) is firmly clamped in the sensor body (1) and/or in a crimping sleeve (7) which is in front of the sensor body.

2. The apparatus as claimed in claim 1, characterized in that an equalizing line (10) is arranged in the crimping sleeve (7), with the measurement element (4, 5) projecting from the equalizing line (10) into the sensor body (1).

3. The apparatus as claimed in claim 2, characterized in that the equalizing line (10) has external insulation composed of glass silk/Kapton.

4. The apparatus as claimed in claim 3, characterized in that an extraction thread (9) is adjacent to the crimping sleeve (7).

5. A method for production and an apparatus for monitoring a temperature, in particular the temperature of

the mold wall of an injection mold, by means of at least one measurement element (4, 5) which pulls a sensor body (1) through in a corresponding hole (2, 3) at least as far as its outer walls (6), characterized in that the measurement element (4, 5) is firmly clamped in the sensor body (1) by reducing the cross section of the hole (2, 3).

6. A method for production and an apparatus for monitoring a temperature, in particular the temperature of the mold wall of an injection mold, by means of at least one measurement element (4, 5) which pulls a sensor body (1) through in a corresponding hole (2, 3) at least as far as its outer walls (6), characterized in that a crimping sleeve (7) is fitted to the sensor body (1) with an equalizing line (20) with the measurement element (4, 5) being pulled through the interior of the crimping sleeve (7), and with the cross section of the internal area of the crimping sleeve 7 being at least partially reduced, and thus fixing the equalizing line (10) in the internal area.

7. A method for production and an apparatus for monitoring a temperature, in particular the temperature of the mold wall of an injection mold, by means of at least one measurement element (4, 5) which pulls a sensor body (1) through in a corresponding hole (2, 3) at least as far as its outer walls (6), characterized in that the measurement element (4, 5) projects somewhat beyond the hole (2, 3) and is then ground off.

8. A method for production and an apparatus for monitoring a temperature, in particular the temperature of the mold wall of an injection mold, by means of at least one measurement element (4, 5) which pulls a sensor body (1) through in a corresponding hole (2, 3) at least as far as its outer walls (6), characterized in that the measurement element (4, 5) projects somewhat beyond the hole (2, 3), is coated with a weld or solder droplet, and this is ground off together with the measurement element (4, 5).

9. The method as claimed in claim 7 or 8, characterized in that the grinding off process is carried out as far as the level of the outer wall (6).